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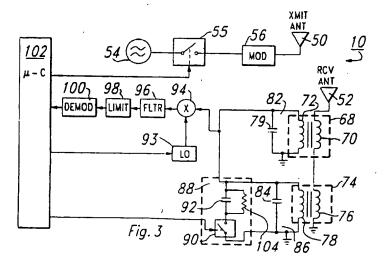
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(54) Frequency diversity transponder arrangement

(57) A method of communicating between a transponder and an interrogator. The interrogator (10) transmits a wireless RF interrogation which is received by the transponder (12). The transponder (12) then transmits a wireless RF response. The wireless RF response has a first channel response centered at frequency FDX1=RF+SC, a second channel response centered at frequency FDX2=RF-SC, and a third channel response centered at frequency FDX3=SC. The third channel response is a spurious signal resulting from using a non-linear element (32) as the transponder mod-

ulator (32,34). The interrogator (10) receives this wireless RF response. The response is received in the three channels with a first circuit (82) operable to receive said first channel response, a second circuit (86) is operable to receive said second channel response, and a third circuit (86,88) is operable to receive said third channel response. A controller (102) then selects the response from one of said first, second, or third circuits (82,86,88) for demodulating. A demodulator (100) may then demodulate one the selected channel responses. Other arrangements, systems, and methods are disclosed.





EUROPEAN SEARCH REPORT

Application Number EP 94 11 0287

	DOCUMENTS CONSIDE			
Category	Citation of document with indicate of relevant passage	ation, where appropriate, les	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)
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Place of search Date of completion of the search				Examing
T	HE HAGUE	8 May 1996	Deco	ninck, E
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